

PERSONAL INFORMATION

Piotr Rychter



📍 17, Jordana, Częstochowa 42-280, Poland

☎ +48 343614918 int.195

✉ p.rychter@ajd.czest.pl

| Date of birth 19/07/1976 | Nationality Poland

POSITION

Experienced researcher

WORK EXPERIENCE

2000 – present

Researcher and academic teacher at Jan Długosz University in Częstochowa, The Faculty of Mathematics and Natural Sciences, Institute of Chemistry, Environmental Protection and Biotechnology.

01/01/2005 – 30/06/2005

Stay in the framework of the National Centre of Excellence POLYMERS 2000+ at Centre of Polymer Chemistry Polish Academy of Science in Zabrze, M. C. Skłodowskiej Av., 34, 41-819 Zabrze, Poland

06/01/2014 – 05/05/2014

4 months scholarship in the Polymer Institute of Slovak Academy of Science, funded by SAIA, Bratislava

EDUCATION AND TRAINING

2008

Public defence of the doctoral dissertation under the title “Biodegradation of selected polyesters and their blends in soil” at the Faculty of Environment Engineering and Energetics of Silesian University of Technology in Gliwice, Poland.  
Research field: Technical Science, Environment Engineering.

1998-2000

M.Sc. in Chemistry, Faculty of the Mathematics and Natural Sciences, Jan Długosz University, Częstochowa, Poland.

1995-1998

B.Sc. in Chemistry with teacher’s licence, Faculty of the Mathematics and Natural Sciences, Jan Długosz University, Częstochowa, Poland.

1998-2000

B.Sc. in Environmental Protection with teacher’s licence, Jan Długosz University, Częstochowa, Poland.

SKILLS AND COMPETENCES

Communication skills

- good communication skills gained through experience as an academic teacher and researcher worker

### Job skills, Scientific interests

- Characterization of polymer structure and properties as well as its degradation products using technics: NMR, IR, HPLC/MS, GPC, ESI-MS. Toxicity evaluation of chemical substances (degradation products of polymers) using OECD 208 guideline, Microtox and Ostracodtoxkit microbiotests.

Research interests are focused on application of biodegradable polymers for environment and biomedical purposes. Interdisciplinary character of research combines the ecotoxicological impact of polymers and their degradation products onto environment, controlled-release technology for agrochemicals, utilization of wastes containing biodegradable polymer for their further application. Currently realized project for biomedical purpose is concerned with application of bioresorbable polymers for preparation of porous, three dimensional scaffolds as a carrier for cells culture.

## ADDITIONAL INFORMATION

---

### Projects

#### Participation in research projects:

- National Research Project PBZ-KBN-070/T09/2001/7 Polymer Materials from renewable resources – physical and chemical properties base of new technology. Selected research task: Determination of chemical structure-property relationships of aliphatic polyesters (hydroxy acid derivatives) and evaluation of their biodegradability in natural conditions, 2003-2006
- Project "MARGEN" POIG.01.03.01-00-018/08-00, 2009-2012, New generation of packaging materials made from plastics subject to the organic recycling, European Regional Development Fund in the framework of the Innovative Economy
- Research Project PBR- nr NR05- 0036- 10/2010-2013, Biodegradable polymeric material used for packaging of organic waste and agricultural and horticultural films
- National Research Project N N310 303039: Study of formulation of controlled release herbicides containing biologically active conjugates of carboxylic acids with biodegradable oligoesters and evaluation of their efficacy, 2010-2013
- National Research Project UMO-2011/01/B/ST5/06296: Bioresorbable polymeric scaffolds with shape memory behavior, 2011-2014.
- Biogratex. Biodegradable fibrous products, POIG.01.03.01-00-007/08, 008-2013
- Project of the National Centre for Research and Development: Modification and functionalization of biopolymers from cereals and milling processing to develop biomaterials of new generation, 2012-2015

### Honours and awards

- Foundation for Polish Science conference fellowship to attend a European Polymer Congress, Stockholm, Sweden, 2003

### Memberships

- Since 2005 Member of Polish Chemical Society